

TK-290 VOC™ PRODUCT DATA SHEET



DESCRIPTION

TK-290 VOC is a low viscosity, low VOC, multi-substrate, salt and water repellent. Engineered to prevent damage from environmental conditions including: de-icing agents, salts, freeze damage, efflorescence, scaling, and surface popping. TK-290 VOC is a solvent-based formulation designed to penetrate up to 1/4 inch (6.35 mm) and chemically bond with the substrate to become a permanent part, prohibiting salt, water, chloride ion, and acid rain intrusion. This protection ensures the longest life-cycle to the substrate by preventing surface deterioration.

USES:

TK-290 VOC is suitable for both vertical and horizontal, above-grade exterior surfaces. Typical surfaces include:

- Concrete & Cementitious Surfaces
- Pavers / Brick / Clay Brick
- Travertine
- Limestone
- Slate
- All Light Commercial
- Ramps
- Parking Structures
- Marine Piers & Pilings
- Multi-Family Housing
- Theme & Water Parks
- Healthcare & Educational
- Government & Historical
- Industrial & Business Parks
- Warehousing

BENEFITS:

- Low VOC – Meets the VOC Regulatory Compliance for AIM, OTC, LADCO, CARB, SCAQMD, CANADA
- Non-Film Forming – Maintains the surfaces slip resistance (coefficient of friction)
- Non-Color Enhancing – Will not alter the appearance of the substrate and will not yellow
- Performance – Outperforms typical water repellents due to superior penetration and bonding properties

APPLICATION PROCEDURES

PREPARATION:

Before using this product, read the Safety Data Sheet for complete safety information.

All surfaces to be treated must be clean and structurally sound. Thoroughly clean surfaces to remove all grease, oils, form oils, or other contaminants. Best results are obtained by applying TK-TRI-SILOXANE 290 VOC to dry surfaces. It is recommended that surface temperatures be 40°F or above at the time of application to ensure that surfaces are frost-free.

Existing Concrete preparation - Remove unsound concrete and repair cracks or deteriorated areas prior to application. Surfaces may require manual abrasion to achieve maximum penetration.

New Concrete Preparation: Water cure fresh concrete. As a standard procedure, allow new concrete to thoroughly cure (typically 14 to 28 days) before applying this product.

A test patch should always be performed to determine proper results and coverage rates prior to application.

MIXING:

The material is ready for use and requires no mixing or dilution. It is unlawful to further dilute with non-exempt solvents.



APPLICATION:

Apply by roller or spray equipment in a uniform manner and in sufficient quantity to completely wet out the substrate with a minimum of 2-inch run down. The recommended coverage rate for most concrete substrates is 125 square feet per gallon. Very porous surfaces may require two coats.

CLEAN UP

Use TK-00 XYLENE* where allowed, otherwise use TK-ECU Exempt Clean-up Solvent* to clean tools and equipment. Pump solvent through the sprayer to remove residue of materials which can clog the hose and wand assembly..

COVERAGE

The recommended coverage rate for most concrete substrates is 125 square feet per gallon. Very porous surfaces may require two coats..

Surface	Coverage
Bridge decks/ramps:	100-200 square feet per gallon
Smooth concrete:	150-250 square feet per gallon
Exposed aggregate:	100-200 square feet per gallon
Concrete block:	40-100 square feet per gallon
Burnished block:	150 square feet per gallon

Coverage rates are provided as a guideline only. Many factors, including surface texture, porosity, and weather conditions, will determine actual coverage rates.

MAINTENANCE

If wear patterns occur, TK-TRI-SILOXANE 290 VOC may be reapplied to affected areas.

LIMITATIONS

- Do not use below-grade or under hydrostatic pressure
- Do not apply if rain is expected within 4-6 hours of application
- Application to inappropriate or incompatible substrates may affect adhesion of subsequent coatings
- Use with adequate ventilation
- Not suitable for use on gypsum
- Product will freeze in temperatures below 34°F.
- If frozen, allow to warm to 40°F and stir prior to use.

PROTECTION OF VEGETATION, GLASS, AND ALUMINUM SURFACES

Avoid contact with live vegetation, glass, and aluminum. If properly protecting these surfaces is impractical, the following steps should be performed:

1. Minimize contact of TK-TRI-SILOXANE 290 VOC with live vegetation, glass, and aluminum surfaces.
2. If TK-TRI-SILOXANE 290 VOC comes into contact with glass or aluminum, thoroughly clean surfaces with Windex® or an ammonia cleaner while the material is still wet.

FIRST AID

Consult this product's safety data sheet for additional health and safety information. Safety Data Sheets are available through TK distributors, the TK office, and the TK website.

NOTES

*TK-00 XYLENE must be purchased separately

*TK-ECU Exempt Clean-up Solvent must be purchased separately

REVISIONS

LAST: 11/18

PREVIOUS: 03/18

TECHNICAL DATA INFORMATION

Surface	Coverage
Composition and Materials:	An oligomeric, organosiloxane water repellent
Density:	6.72 lbs.
Flash Point:	58°F
VOC Content**:	< 120 g/l

Surface	Coverage
A.I.M. Category:	Low Solids Coating
Maximum VOC:	120 g/l
OTC Category (Phase II):	Reactive Penetrating Sealer
Maximum VOC:	350 g/l
Applicable Standards:	ASTM C666 Resistance of Concrete to Rapid Freezing and Thawing ASTM C672 Scaling Resistance NCHRP 244 (water absorption, % water vapor transmission, and % reduction in chloride intrusion) TYPICAL PROPERTIES TK-TRI-SILOXANE 290 VOC is characterized by the following properties: - Excellent penetration - High alkali resistance and suitability for either alkaline or neutral substrates - Low volatility - Dries tack free - Provides early water repellency - Exhibits droplet effect

MANUFACTURER PART #'S

Size	Item Code
55-GALLON	TK-290 VOC 55 CL.HD.L
5-GALLON	TK-290 VOC 5L PHEN PS
1-GALLON	TK-290 VOC G. F STYLE